



Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A thermoplastic resin composition comprising:
a fluoro-resin in an amount ranging from 5 to 40 parts by weight, the fluoro-resin including a crosslink formed between at least a part of the carbon atoms that form~~forming~~ part of a molecule chain of the fluoro-resin and at least a part of the carbon atoms that form~~forming~~ part of another molecular chain of the fluoro-resin, and an active end group that forms~~formed~~ at least a part of the molecule chain of the fluoro-resin; and
a thermoplastic resin other than a~~the~~ fluoro-resin, in an amount ranging from 95 to 60 parts by weight.
2. (Currently Amended) The~~[[A]]~~ thermoplastic resin composition as claimed in Claim 1, wherein the crosslink and the active end group are formed by irradiating an ionizing radiation in a dosage ranging from 1 kGy to 10 MGy onto the fluoro-resin in a condition in which the fluoro-resin is heated at a temperature of not lower than a melting point of the fluoro-resin in an inert gas atmosphere having an oxygen concentration of not higher than 1.33 kPa.
3. (Currently Amended) The~~[[A]]~~ thermoplastic resin composition as claimed in Claim 1, wherein the fluoro-resin has an average diameter ranging from 5 to 30 μm .
4. (Currently Amended) The~~[[A]]~~ thermoplastic resin composition as claimed in Claim 1, wherein the thermoplastic resin is polyamide resin, and the fluoro-resin is tetrafluoroethylene.
5. (Currently Amended) A combination of a thermoplastic resin composition with a lubricating oil, ~~the thermoplastic resin composition being used in presence of the lubricating oil, comprising:~~
(a) a lubricating oil in contact with
(b) a thermoplastic resin composition,
wherein the thermoplastic resin composition comprises~~comprising:~~

a fluoro-resin in an amount ranging from 5 to 40 parts by weight, the fluoro-resin including a crosslink formed between at least a part of the carbon atoms that form~~forming~~ part of a molecule chain of the fluoro-resin and at least a part of the carbon atoms that form~~forming~~ part of another molecular chain of the fluoro-resin, and an active end group that form~~formed~~ at least a part of the molecule chain of the fluoro-resin; and

a thermoplastic resin other than a[[the]] fluoro-resin, in an amount ranging from 95 to 60 parts by weight,

wherein the thermoplastic resin has a surface energy ranging from a first value of [a surface energy of the lubricating oil + 0] N/cm to a second value of [the surface energy of the lubricating oil + 20×10^5] N/cm.

6. (Currently Amended) A resinous material comprising:

a thermoplastic resin composition including

a fluoro-resin in an amount ranging from 5 to 40 parts by weight, the fluoro-resin including a crosslink formed between at least a part of the carbon atoms that form~~forming~~ part of a molecule chain of the fluoro-resin and at least a part of the carbon atoms that form~~forming~~ part of another molecular chain of the fluoro-resin, and active end groups that form~~formed~~ at least a part of the molecule chain of the fluoro-resin, and

a thermoplastic resin other than a[[the]] fluoro-resin, in an amount ranging from 95 to 60 parts by weight;

wherein at least a part of the active end groups of the fluoro-resin is chemically bonded with an atom forming part of the thermoplastic resin by kneading both the thermoplastic resin and fluoro-resin upon heating both the thermoplastic resin and the fluoro-resin to a temperature close to melting points of the thermoplastic resin and the fluoro-resin and upon applying a vacuum-suction to both the thermoplastic resin and the fluoro-resin.

7. (Withdrawn) A sliding member comprising:

a thermoplastic resin composition including

a fluoro-resin in an amount ranging from 5 to 40 parts by weight, the fluoro-resin including crosslink formed between at least a part of carbon atoms forming part of a molecule chain of the fluoro-resin and at least a part of carbon atoms forming part another molecular chain of the fluoro-resin, and active end group formed at least a part of the molecule chain of the fluoro-resin, and

a thermoplastic resin other than the fluoro-resin, in an amount ranging from 95 to 60 parts by weight.

8. (Withdrawn) A sliding member formed of a resinous material, the resinous material comprising:

a thermoplastic resin composition including

a fluoro-resin in an amount ranging from 5 to 40 parts by weight, the fluoro-resin including crosslink formed between at least a part of carbon atoms forming part of a molecule chain of the fluoro-resin and at least a part of carbon atoms forming part another molecular chain of the fluoro-resin, and active end groups formed at least a part of the molecule chain of the fluoro-resin, and

a thermoplastic resin other than the fluoro-resin, in an amount ranging from 95 to 60 parts by weight,

wherein at least a part of the active end groups of the fluoro-resin is chemically bonded with atom forming part of the thermoplastic resin by kneading both the thermoplastic resin and fluoro-resin upon heating both the thermoplastic resin and the fluoro-resin to a temperature close to melting points of the thermoplastic resin and the fluoro-resin and upon applying a vacuum-suction to both the thermoplastic resin and the fluoro-resin.

9. (Withdrawn) A chain system for an internal combustion engine, comprising a shoe of one of at least one of a chain guide and a chain tensioner, the shoe being formed of a resinous material, the resinous material including a fluoro-resin in an amount ranging from 5 to 40 parts by weight, the fluoro-resin including crosslink formed between at least a part of carbon atoms forming part of a molecule chain of the fluoro-resin and at least a part of carbon atoms forming part another molecular chain of the fluoro-resin, and active end group formed at least a part of the molecule chain of the fluoro-resin, and a thermoplastic resin other than the fluoro-resin, in an amount ranging from 95 to 60 parts by weight,

a metal chain in sliding contact with the shoe, the metal chain having a surface roughness (Rz) of not larger than 5 μm .

10. (Withdrawn) A seal ring used in a motor vehicle, formed of a resinous material, the resinous material comprising a thermoplastic resin composition, the thermoplastic resin composition including:

a fluoro-resin in an amount ranging from 5 to 40 parts by weight, the fluoro-resin including crosslink formed between at least a part of carbon atoms forming part of a molecule chain of the fluoro-resin and at least a part of carbon atoms forming part another molecular chain of the fluoro-resin, and active end group formed at least a part of the molecule chain of the fluoro-resin; and

a thermoplastic resin other than the fluoro-resin, in an amount ranging from 95 to 60 parts by weight, the thermoplastic resin being at least one selected from the group consisting of polyamideimide resin, polyetherimide resin, and polyetherether ketone resin.

11. (Withdrawn) A method of producing a resinous material containing a fluoro-resin and a thermoplastic resin other than the fluoro-resin, comprising:

irradiating an ionizing radiation in a dosage ranging from 1 kGy to 10 MGy onto the fluoro-resin in a condition in which the fluoro-resin is heated at a temperature of not lower than a melting point of the fluoro-resin an inert gas atmosphere having an oxygen concentration of not higher than 1.33 kPa; and

introducing the fluoro-resin irradiated with the ionizing radiation into an extruder to knead both the thermoplastic resin and the fluoro-resin upon heating both the thermoplastic resin and the fluoro-resin to a temperature close to melting points of the thermoplastic resin and the fluoro-resin and upon applying a vacuum-suction to both the thermoplastic resin and the fluoro-resin.